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<b>Notice of Allowability</b>	Application No.	Applicant(s)	
	09/780,413	WAKAYAMA ET AL.	
	Examiner	Art Unit	
	Puneet Bhandari	2666	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/12/2004.
2. ☒ The allowed claim(s) is/are 1-19.
3. ☒ The drawings filed on 2/12/2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

  
**DANG TON**  
**PRIMARY EXAMINER**

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date <u>2/12/01</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                              | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

### **DETAILED ACTION**

1. This is in response to amendment dated 11/12/2004. Claims 1-19 are pending.

#### **Examiner's Amendment**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jeuel from office of Carl Brundidge (29621) on June 10, 2005. The application has been amended as follows:

#### **In the claims-**

Regarding claim **1**, on page 3, lines 9 and 14 "a network" has been replaced with "the network".

Regarding claim **3**, on page 5, lines 1 and 6 "a network" has been replaced with "the network".

Regarding claim **4**, on page 6, lines 7,12 "a network" has been replaced with "the network" and on page 7, line 7 "a network" has been replaced with "the network".

Regarding claim **5**, on page 8, line 3 "multiprotocol label switching (MPLS) network" has been replaced with "a multiprotocol label switching (MPLS) network" and "multiprotocol label switching protocol" has been replaced with "a multiprotocol label switching protocol". On page 8, lines 9 and 18 "a network" has been replaced with "the network". On page 9, line 6 "MFLS" has been replaced with "MPLS".

Regarding claim 7, on page 9, line 15 "multiprotocol label switching (MPLS) network" has been replaced with "a multiprotocol label switching (MPLS) network" and on line 20 "a network" has been replaced with "the network".

Regarding claim 13, on page 13, line 11 "multiprotocol label switching (MPLS) network" has been replaced with "a multiprotocol label switching (MPLS) network" and on line 18 "a network" has been replaced with "the network". On page 14, line 7 "correspondence" has been replaced with "a correspondence".

Regarding claim 14, on page 15, line 7 "a network" has been replaced with "the network".

Regarding claim 15, on page 16, line 18 "a network" has been replaced with "the network". On page 17, line 4 "correspondence" has been replaced with "a correspondence". On page 17, lines 18 and 20 "priority information" has been replaced with "a priority information".

**In the specification-**

On page 1, line 9 "YLAN" should be replaced with "VLAN".

On page 1, line 12 "WEE" should be replaced with "IEEE".

On page 2, line 7 "TLAN" should be replaced with "VLAN".

On page 2, line 8 "YLAN" should be replaced with "VLAN".

On page 8, line 8 "15" should be deleted.

On page 8, line 17 "Ethernet 1 I" should be replaced with "Ethernet 11".

On page 12, line 11 "TLAN" should be replaced with "VLAN".

The above examiner amendment was made to clarify the claims and specification.

3. The following is an examiner's statement of reasons for allowance:

Regarding claims **1,3,4 & 7** the prior art of record fails to teach a memory that stores header transformation information that shows correspondence between a pair of information in said layer 2 header and information in said layer 3 header in correspondence with information in said MPLS header. Prior art of records also fails to teach a processor that searches said header transformation information and transform said layer 2 header contained in a packet received from said first port to said MPLS header corresponding to said layer 2 header.

Regarding claim **13,14 & 15** prior art of record fails to teach a plurality of logical networks that are identified by an identifier in a said layer 2 header are configured in the network which does not use said MPLS protocol and determining to which network among plurality of the logical network a received packet belongs, using said identifier in said layer 2 header that is added to a received packet, when the packet is received from the network which does not use said MPLS protocol, checking the said correspondence (between identifier in layer 2 header and a label) and checking said correspondence when the packet is received from said MPLS network.

Regarding claim **19**, it was allowed in the previous office action by the examiner.

### ***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Puneet Bhandari whose telephone number is 571-272-2057. The examiner can normally be reached on 9.00 AM To 5.30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on 571-272-3174. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Puneet Bhandari  
Examiner-Art Unit 2666.

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DANG TON  
PRIMARY EXAMINER